

Syllabus

BI1358.1 Exercise physiology and rehabilitation for performance and injury prevention., 15.0 credits

Träningsfysiologi och rehabilitering för prestation och skadeprevention

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

26 February 2019

The version applies to students admitted from spring 2020

The version is not a module version

Subjects

Biology/Animal science

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	15.0

Advanced study in the main field

Second cycle, only first-cycle courses as entry requirements (A1N)

Grading scale

5:Pass with Distinction, 4:Pass with Credit, 3:Pass, U:Fail

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

A Degree of Bachelor corresponding to 180 credits in biology, equine science, veterinary medicine or animal science, including at least 10 credits in anatomy and zoophysiology as well as English 6.

Objectives

The objective of this course is to provide the student with the theoretical, and to some extent practical, knowledge in exercise physiology and rehabilitation needed to design a training programme that promotes performance and injury prevention in animals, mainly horses and dogs.

On completion of the course, the student will be able to:

- design a training programme according to given instructions;
- describe how tissues of the locomotor system respond to varying loads and to injury and healing;
- describe, in detail, the impact of different training programmes on the animal's locomotion and circulatory systems;
- describe, in detail, ways to measure progression in training and relationships between physiological markers and performance;
- at a general level, describe indications, contraindications, model and mode of action for a selection of rehabilitation and evaluation techniques;
- critically evaluate scientific documentation in the area of rehabilitation and exercise physiology and justify the importance of a scientific approach in the training of animals;
- reflect on issues regarding ethics, animal welfare and workplace safety that can arise during training, competition and rehabilitation.

Content

Instruction is given in the form of lectures, independent study and compulsory demonstrations, practical and theoretical exercises. The course includes the handling of dissection material and live animals.

The course provides the students with theoretical knowledge in exercise physiology

by teaching them when, how and why a selection of evaluation and training methods are used on horses and dogs. The course covers areas such as the response of tissues to injury, healing and different amounts of load. It will also cover rehabilitation interventions for a selected number of illnesses and injuries, assessment methods and their indications, modes of action and scientific documentation. The students practise critically reviewing documentation on training and discussing ethical aspects of animal welfare.

The students are given the opportunity to implement their theoretical knowledge practically, for example

as part of the course components on preventive training and training for performance.

Formats and requirements for examination

A pass in the written examination and participation in compulsory course components.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

The course is given partly as a distance-learning course.

This course overlaps with the courses VM0108, VM0112 and VM0124 and cannot in full be included in the same qualification.

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.

- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Anatomy, Physiology and Biochemistry

Cooperating departments:

Department of Clinical Sciences

Supplementary Information

Finalized by: Programnämnden för utbildning inom veterinärmedicin och husdjur (PN - VH)

Biology Area: Zoology

Course overlap: VM0108, VM0112, VM0124

Replacement course: BI1271, BI1292, BI1331